UNITED STATES PATENT OFFICE

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FELT RUBBER ROLLER

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roller for use in printing which is made by the case with the rubber roller. Also, the felt winding felt around the roller stock, winding rubber 1 has the hardness and the quality of sponge rubber around it and then wrapping the surface like leather, but is homogeneous 5 the same in the tubular felt impregnated with unlike the leather roller (in a big roller, even the mixed solution of virgin rubber, filler, one animal skin has different thickness and sulphur and solvent and then vulcanized, namely felt rubber. The object thereof is to obtain a roller which keeps the elasticity of 10 the rubber roller, but does not slip like it, has the surface as good as that of the leather roller, but homogeneous, and thus maintains such elasticity and surface as allow ink to adhere perfectly.

Referring to the accompanying drawing, Fig. 1 is a perspective view of the roller according to this invention and

Fig. 2 is a sectional view of the same. In the drawing, the same reference num-

20 bers show the same parts.

According to this invention, felt 3 is wound around the stock 4 of the roller and then sponge rubber 2 of the proper thickness is layer of felt wound around the stock, a layer wound around it. On the other hand,

		Grams
	Virgin rubber	_ 100
	Darium suipnate	40
	Sulphur	_ 15
30	Sulphur Vegetable oil (soja bean oil or casto	r 10
	oil)	_ 10
	are kneaded together and dissolved with	h ·
	Benzol	_ 60
	Naphtha	_ 40
35	Then, the felt previously formed in a tu- shape is well impregnated with the about lution and is heated and vulcanized (co	bular ve so-

"felt rubber 1" in this invention). Then, it covers the roller stock and has its both ends 40 tied around the stock 4. Finally, its surface is made smooth. The thickness and elasticity of the sponge rubber 2 are more or less regulated according to the object of printing. Thus, according to this invention the roller

45 does not only retain the suitable elasticity of the rubber roller by using the felt 3 and sponge rubber 2, but since the felt rubber 1 itself is elastic and has the fibre of felt, there is no fear of the ink adhering to the roller im-

50 perfectly owing to the slipping of the roller

The present invention relates to an inking by the ink during printing operation, as is quality according to its parts so it is very difficult to obtain a homogeneous roller). Therefore, it allows ink to adhere well. Further, as it has the tubular surface impreg- 60 nated with the mixed solution and then dried, there is no fear of its being broken at the seam as in the leather. Such being the case, the roller according to this invention has the merit, but not the fault of the rubber roller.

I claim: 1. An inking roller comprising a stock, a layer of felt wound around the stock, a layer of spongy rubber on the felt layer, and a tubular felt covering impregnated with vul- 70 canized rubber compound.

2. An inking roller comprising a stock, a of spongy rubber on the felt layer, and a tubular felt covering impregnated with vulcan- 75 ized rubber compound consisting of rubber and felt.

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